

Miami County

Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/27/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 23 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Miami County economy.¹

These 23 sectors have a total direct output of approximately **\$195.0 million** and support **1,688 jobs** in Miami County. Running the model for all 23 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Miami County Economy					
Contribution Type ²	Employment	% Employment	Total Value Added ³	Total Value Added % of Gross Regional Product ⁴	Output ⁵
Direct Effect	1688.2	12.59%	\$61,429,542	6.97%	\$195,025,195
Indirect Effect	130.8	0.98%	\$9,864,871	1.12%	\$18,519,790
Induced Effect	87.5	0.65%	\$6,145,563	0.70%	\$11,047,275
Total Effect	1906.5	14.21%	\$77,439,976	8.78%	\$224,592,260

As shown in the above table, agriculture, food, and food processing sectors support **1,906 jobs**, or **14.21%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 23 agriculture, food, and food processing sectors is approximately **\$77.4 million**, or **8.78% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

<https://implanhelptest.zendesk.com/hc/en-us/articles/115002801513-Considerations-of-Contribution-Analysis>

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming sector is the top employer with **772 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Miami County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	772.0	\$29,830,981
Landscape and horticultural services	170.3	\$8,863,892
All other crop farming	108.9	\$2,942,015
Grain farming	90.7	\$11,382,040
Animal, except poultry, slaughtering	87.0	\$60,863,534
Veterinary services	69.8	\$6,770,025
Animal production, except cattle and poultry and eggs	63.6	\$2,862,879
Support activities for agriculture and forestry	62.2	\$1,258,390
Greenhouse, nursery, and floriculture production	58.8	\$7,116,539
Oilseed farming	55.7	\$20,399,473

The animal, except poultry, slaughtering sector directly contributes approximately **\$60.9 million** to the Miami County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Animal, except poultry, slaughtering	87.0	\$60,863,534
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	772.0	\$29,830,981
Oilseed farming	55.7	\$20,399,473
All other food manufacturing	45.8	\$16,062,599
Grain farming	90.7	\$11,382,040
Landscape and horticultural services	170.3	\$8,863,892
Greenhouse, nursery, and floriculture production	58.8	\$7,116,539
Veterinary services	69.8	\$6,770,025
Canned fruits and vegetables manufacturing	13.3	\$6,282,498
Dairy cattle and milk production	22.7	\$6,124,931

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Miami County economy.

All Agriculture, Food, and Food Processing Sectors		
Sector	Total Employment	Total Output
Oilseed farming	55.7	\$20,399,473.19
Grain farming	90.7	\$11,382,040.02
Vegetable and melon farming	3.3	\$468,432.61
Fruit farming	8.3	\$550,143.72
Tree nut farming	3.5	\$307,417.96
Greenhouse, nursery, and floriculture production	58.8	\$7,116,539.48
All other crop farming	108.9	\$2,942,015.17
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	772.0	\$29,830,980.30
Dairy cattle and milk production	22.7	\$6,124,930.86
Poultry and egg production	4.0	\$1,843,766.45
Animal production, except cattle and poultry and eggs	63.6	\$2,862,878.56
Commercial hunting and trapping	8.0	\$158,151.75
Support activities for agriculture and forestry	62.2	\$1,258,390.19
Canned fruits and vegetables manufacturing	13.3	\$6,281,331.06
Animal, except poultry, slaughtering	87.0	\$60,863,536.83
Bread and bakery product, except frozen, manufacturing	14.2	\$1,747,813.70
Frozen cakes and other pastries manufacturing	0.9	\$138,070.97
All other food manufacturing	45.8	\$16,062,599.18
Wineries	8.9	\$2,805,416.35
Farm machinery and equipment manufacturing	13.3	\$5,359,015.46
Food product machinery manufacturing	2.9	\$888,335.88
Veterinary services	69.8	\$6,770,024.78
Landscape and horticultural services	170.3	\$8,863,891.60

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Miami County, the retail sector was omitted.